



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Pioneer Hi-Bred International, Inc.

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *eighteen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (T. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

SOYBEAN

'9831'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this 30th day of September in the year of our Lord one thousand nine hundred and ninety-four.

Attest

Kenneth A. Evans

Commissioner

Plant Variety Protection Office

Agricultural Marketing Service

Usher Esch
Secretary of Agriculture



U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions on reverse)

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF APPLICANT(S) (as it is to appear on the Certificate) Pioneer Hi-Bred International, Inc.		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NO.	3. VARIETY NAME 9831
4. ADDRESS (street and no. or R.F.D. no., city, state, and ZIP) 700 Capital Square 400 Locust Street Des Moines, IA 50309		5. PHONE (include area code) 515-270-3414	FOR OFFICIAL USE ONLY PVPO NUMBER 9200195 F I L I N G Date May 20, 1992 Time <input type="checkbox"/> A.M. <input checked="" type="checkbox"/> P.M. F E E S Filing and Examination Fee: \$ 2150.- Date May 14, 1992 R E C E I V E D Certificate Fee: \$ 250.00 Date Sept 19, 1994
6. GENUS AND SPECIES NAME Glycine max	7. FAMILY NAME (Botanical) Leguminosae		
8. CROP KIND NAME (Common Name) Soybean	9. DATE OF DETERMINATION September 1986		
10. IF THE APPLICANT NAMED IS NOT A "PERSON," GIVE FORM OF ORGANIZATION (Corporation, partnership, association, etc.) Corporation			
11. IF INCORPORATED, GIVE STATE OF INCORPORATION Iowa	12. DATE OF INCORPORATION 1926		

13. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS

James E. Miller, Ph.D. 7301 NW 62nd Ave., P.O. Box 85 Johnston, IA 50131-0085	Mike Roth (copy) 700 Capital Square, 400 Locust Street Des Moines, IA 50309
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PHONE (include area code):

14. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow INSTRUCTIONS on reverse)

- a. ☒ Exhibit A, Origin and Breeding History of the Variety.
- b. ☒ Exhibit B, Novelty Statement.
- c. ☒ Exhibit C, Objective Description of Variety.
- d. ☒ Exhibit D, Additional Description of Variety.
- e. ☒ Exhibit E, Statement of the Basis of Applicant's Ownership.
- f. ☒ Seed Sample (2,500 viable untreated seeds). Date Seed Sample mailed to Plant Variety Protection Office **5-15-92**
- g. ☒ Filing and Examination Fee (\$2,150) made payable to "Treasurer of the United States."

15. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See section 83(a) of the Plant Variety Protection Act.)
☐ YES (If "YES," answer items 16 and 17 below) ☒ NO (If "NO," skip to item 18 below)

16. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?
☐ YES ☐ NO

17. IF "YES" TO ITEM 16, WHICH CLASSES OF PRODUCTION BEYOND BREEDER SEED?
☐ FOUNDATION ☐ REGISTERED ☐ CERTIFIED

18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.
☐ YES (If "YES," through ☐ Plant Variety Protection Act ☐ Patent Act. Give date: _____.)
☒ NO

19. HAS THE VARIETY BEEN RELEASED, USED, OFFERED FOR SALE, OR MARKETING IN THE U.S. OR OTHER COUNTRIES?
☐ YES (If "YES," give names of countries and dates)
☒ NO

20. The applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in section 41, and is entitled to protection under the provisions of section 42 of the Plant Variety Protection Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF APPLICANT [Owner(s)] James E. Miller	CAPACITY OR TITLE Director, Worldwide Soybean Research	DATE 5-8-92
SIGNATURE OF APPLICANT [Owner(s)]	CAPACITY OR TITLE	DATE

Pioneer Hi-Bred International, Inc.
PVP Application Variety 9831 Soybean
April 1992

EXHIBIT A

Origin and Breeding History of Variety 9831

Summer 1983	Original cross made in Greenville, MS. Cross number was 2774. Parentage - 2076-18 * 2032-14 2076-18 = Essex * Davis 2032-14 = Dare * Tracy
Winter 1983-84	F1 plants grown in Hawaii under artificial light.
Summer 1984	F2 advanced to F3 by modified single seed descent at Greenville, MS.
Winter 1984-85	F3 advanced to F5 in Hawaii in two-generation advance by modified single seed descent.
Summer 1985	F5 bulk of 2774 grown in Greenville, MS and 123 plants selected.
Summer 1986	F6 progeny rows of 2774 grown in Greenville, MS. Row G6-11499 selected and composited.
Summer 1987	Yield tested G6-11499 as 2774-16 in three reps as entry 10 in test GRD707.
Summer 1988	Yield tested as 2774-16 in eight locations in the South and the Southeast. Plants were grown and harvested as individual plants to start strain purification.
Summer 1989	Yield tested as W2774-16 in eight locations in the South and the Southeast. 100 progeny rows were grown and 62 rows were bulked as breeders seed.

Summer 1990 Yield tested as Y2774-16 at eight locations in the South and the Southeast. Approximately three acres of breeders seed (foundation equivalent) were grown at Greenville, MS.

Summer 1991 Yield tested as XB83A at seven locations in the South and the Southeast. Approximately 40 acres of parent seed (foundation equivalent) were grown near Laurinburg, NC.

December 1991 XB83A nominated for release and full production and assigned the designation 9831.

Yield trials and seed production in 1991 indicate Variety 9831 is uniform and stable. As with other soybean varieties, variants can occur for almost any character during the course of repeated sexual production.

EASYLINK 0385461L001 10AUG94 17:26/17:26 EST
FROM: 478327 PIOSEED DMS
333439 PIONEER HIBRED
PIONEER DATA SYSTEMS (CRN: NONE)
TO: 3015045291

9200195

PIONEER HI-BRED INTERNATIONAL, INC.
PLANT BREEDING DIVISION

7301 NW 52nd AVENUE
P.O. BOX 85
JOHNSTON, IA 50131

FAX TRANSMISSION

TO: Jeffrey L. Strachan

FAX NO: (301) 504-5291

PHONE NO: (301) 504-5489

FROM: John Grace

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PHONE NO: (515) 270-3582

DATE: August 10, 1994

TOTAL PAGES TRANSMITTED (INCLUDING THIS SHEET): 1

If you have any problems with this transmission or do not receive all pages, please call 515-270-3582 as soon as possible.

COMMENTS:

Addition to Exhibit A of PVP Application 9200194, '9312' (August, 1994).

Variety '9312' has undergone extensive testing from 1989 to 1993, and has been observed to be stable for all plant traits from generation to generation.

Addition to Exhibit A of PVP Application 9200195, '9831' (August, 1994).

Variety '9831' has undergone extensive testing from 1989 to 1993, and has been observed to be stable for all plant traits from generation to generation.

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Table 1. 9831 vs 9791 for height in inches.

All observations are from plots planted using a randomized complete block design. Planted plot length was 21 feet, trimmed to 15 feet. Plot width was 4 30 inch rows, or 10 feet. Height was measured based upon the average height of the entire plot. Data was taken in 1990 and 1991.

1990

REP	9831 X1	9791 X2	X1-X2	(X1-X2)**2
1	29.3	28.7	0.6	0.36
2	40.5	36	4.5	20.25
3	40.5	38	2.5	6.25
4	37	33	4	16
5	41	37.3	3.7	13.69
6	34	32.3	1.7	2.89
7	37	33	4	16
8	40	36	4	16

$SD^{**2} = (91.44 - (25^{**2} / 8) / (8*7))$
 $SD^{**2} = 0.23777$
 $SD = 0.48761$
 $t = (25 / 8) / 0.48761$
 $t = 6.40875$ ** significant 1% level
 $DF = 7$
 $n = 8$

sum 299.3 274.3 25 91.44
 ave 37.41 34.29 3.125

ave height of 9831 = 37.4125 inches
 ave height of 9791 = 34.2875 inches

1991

REP	9831 X1	9791 X2	X1-X2	(X1-X2)**2
1	38	34	4	16
2	43	39	4	16
3	37	34.5	2.5	6.25
4	41	38	3	9
5	36	34.3	1.7	2.89
6	36	35.5	0.5	0.25
7	43	40	3	9

$SD^{**2} = (59.39 - (18.7^{**2} / 7) / (7*6))$
 $SD^{**2} = 0.22463$
 $SD = 0.47395$
 $t = (18.7 / 7) / 0.47395$
 $t = 5.63655$ ** significant 1% level
 $DF = 6$
 $n = 7$

sum 274 255.3 18.7 59.39
 ave 39.14 36.47 2.671

ave height of 9831 = 39.1429 inches
 ave height of 9791 = 36.4714 inches

1990 and 1991 combined

REP	9831 X1	9791 X2	X1-X2	(X1-X2)**2
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$SD^{**2} = (150.83 - (43.7^{**2} / 15)) / (15*14)$
 $SD^{**2} = 0.11199$
 $SD = 0.33465$
 $t = (43.7 / 15) / 0.33465$
 $t = 8.70574$ ** significant 1% level
 $DF = 14$
 $n = 15$

sum 573.3 529.6 43.7 150.83
 ave 38.22 35.31 2.913

ave height of 9831 = 38.22 inches
 ave height of 9791 = 35.3067 inches

Pioneer Hi-Bred International, Inc.
PVP Application for 9831 Soybean
April 1992

EXHIBIT B

Variety 9831 is most similar to varieties 9791, S83-30, C368, DP417 and Hagood. However, Variety 9831 differs from S83-30, C368 and Hagood in soybean cyst nematode race 3 resistance; 9831 is susceptible, whereas S83-30, C368 and Hagood are resistant. In comparison to DP417, 9831 is resistant to frogeye leaf spot and DP417 is susceptible. In comparison to 9791, 9831 is 2.9 inches taller than 9791 (Table 1).

U.S. DEPARTMENT OF AGRICULTURE
 AGRICULTURAL MARKETING SERVICE
 LIVESTOCK, MEAT, GRAIN & SEED DIVISION
 PLANT VARIETY PROTECTION OFFICE
 BELTSVILLE, MARYLAND 20705

EXHIBIT C
 (Soybean)

OBJECTIVE DESCRIPTION OF VARIETY
 SOYBEAN (*Glycine max* L.)

NAME OF APPLICANT(S) Pioneer Hi-Bred International, Inc.	TEMPORARY DESIGNATION	VARIETY NAME 9831
ADDRESS (Street and No., or R.F.D. No., City, State, and Zip Code) 700 Capital Square 400 Locust Street Des Moines, IA 50309		FOR OFFICIAL USE ONLY PVPO NUMBER 9200195

Choose the appropriate response which characterizes the variety in the features described below. When the number of significant digits in your answer is fewer than the number of boxes provided, place a zero in the first box when number is 9 or less (e.g.,). Starred characters ★ are considered fundamental to an adequate soybean variety description. Other characters should be described when information is available.

1. SEED SHAPE:



1 = Spherical (L/W, L/T, and T/W ratios = < 1.2)

3 = Elongate (L/T ratio > 1.2; T/W = < 1.2)

2 = Spherical Flattened (L/W ratio > 1.2; L/T ratio = < 1.2)

4 = Elongate Flattened (L/T ratio > 1.2; T/W > 1.2)

★ 2. SEED COAT COLOR: (Mature Seed)

1 = Yellow

2 = Green

3 = Brown

4 = Black

5 = Other (Specify) _____

3. SEED COAT LUSTER: (Mature Hand Shelled Seed)

1 = Dull ('Corsoy 79'; 'Braxton')

2 = Shiny ('Nebsoy'; 'Gasoy 17')

★ 4. SEED SIZE: (Mature Seed)

Grams per 100 seeds

★ 5. HILUM COLOR: (Mature Seed)

1 = Buff

2 = Yellow

3 = Brown

4 = Gray

5 = Imperfect Black

6 = Black

7 = Other (Specify) _____

★ 6. COTYLEDON COLOR: (Mature Seed)

1 = Yellow

2 = Green

★ 7. SEED PROTEIN PEROXIDASE ACTIVITY:

1 = Low

2 = High

★ 8. SEED PROTEIN ELECTROPHORETIC BAND:

1 = Type A (SP1^a)2 = Type B (SP1^b)

★ 9. HYPOCOTYL COLOR:

1 = Green only ('Evans'; 'Davis')

2 = Green with bronze band below cotyledons ('Woodworth'; 'Tracy')

3 = Light Purple below cotyledons ('Beeson'; 'Pickett 71')

4 = Dark Purple extending to unifoliate leaves ('Hodgson'; 'Coker Hampton 266A')

★ 10. LEAFLET SHAPE:

1 = Lanceolate

2 = Oval

3 = Ovate

4 = Other (Specify) _____

11. LEAFLET SIZE:

☐ 21 = Small ('Amsoy 71'; 'A5312')
3 = Large ('Crawford'; 'Tracy')

2 = Medium ('Corsoy 79'; 'Gasoy 17')

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12. LEAF COLOR:

☐ 21 = Light Green ('Weber'; 'York')
3 = Dark Green ('Gnome'; 'Tracy')

2 = Medium Green ('Corsoy 79'; 'Braxton')

★ 13. FLOWER COLOR:

☐ 1

1 = White

2 = Purple

3 = White with purple throat

★ 14. POD COLOR:

☐ 1

1 = Tan

2 = Brown

3 = Black

★ 15. PLANT PUBESCENCE COLOR:

☐ 1

1 = Gray

2 = Brown (Tawny)

16. PLANT TYPES:

☐ 21 = Slender ('Essex'; 'Amsoy 71')
3 = Bushy ('Gnome'; 'Govan')

2 = Intermediate ('Amcor'; 'Braxton')

★ 17. PLANT HABIT:

☐ 1

1 = Determinate ('Gnome'; 'Braxton')

2 = Semi-Determinate ('Will')

3 = Indeterminate ('Nebsoy'; 'Improved Pelican')

★ 18. MATURITY GROUP:

☐ 1 ☐ 1

1 = 000

2 = 00

3 = 0

4 = I

5 = II

6 = III

7 = IV

8 = V

9 = VI

10 = VII

11 = VIII

12 = IX

13 = X

★ 19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)

BACTERIAL DISEASES:

★ ☐ 2Bacterial Pustule (*Xanthomonas phaseoli* var. *sojensis*)★ ☐ 2Bacterial Blight (*Pseudomonas glycinea*)★ ☐ 2Wildfire (*Pseudomonas tabaci*)

FUNGAL DISEASES:

★ ☐ 1Brown Spot (*Septoria glycines*)Frogeye Leaf Spot (*Cercospora sojae*)★ ☐ 0

Race 1

☐ 0

Race 2

☐ 0

Race 3

☐ 0

Race 4

☐ 2

Race 5

☐

Other (Specify)

☐ 2Target Spot (*Corynespora cassiicola*)☐ 2Downy Mildew (*Peronospora trifoliorum* var. *manshurica*)☐ 0Powdery Mildew (*Microsphaera diffusa*)★ ☐ 0Brown Stem Rot (*Cephalosporium gregatum*)☐ 2Stem Canker (*Diaporthe phaseolorum* var. *caulivora*)

19. DISEASE REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant) (Continued)

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FUNGAL DISEASES: (Continued)

- ★ ☒ 1 Pod and Stem Blight (*Diaporthe phaseolorum* var. *sojae*)
- ☒ 2 Purple Seed Stain (*Cercospora kikuchii*)
- ☒ 1 Rhizoctonia Root Rot (*Rhizoctonia solani*)
- Phytophthora Rot (*Phytophthora megasperma* var. *sojae*)
- ★ ☒ Race 1 ☒ Race 2 ☒ Race 3 ☒ Race 4 ☒ Race 5 ☐ Race 6 ☒ Race 7
- ☒ Race 8 ☒ Race 9 ☒ Other (Specify) Races 10, 12, 17

VIRAL DISEASES:

- ☒ 1 Bud Blight (Tobacco Ringspot Virus)
- ☒ 1 Yellow Mosaic (Bean Yellow Mosaic Virus)
- ★ ☒ 1 Cowpea Mosaic (Cowpea Chlorotic Virus)
- ☒ 1 Pod Mottle (Bean Pod Mottle Virus)
- ★ ☒ 1 Seed Mottle (Soybean Mosaic Virus)

NEMATODE DISEASES:

- Soybean Cyst Nematode (*Heterodera glycines*)
- ★ ☐ Race 1 ☐ Race 2 ☒ Race 3 ☒ Race 4 ☐ Other (Specify) _____
- ☐ 0 Lance Nematode (*Hoplolaimus Colombus*)
- ★ ☒ 1 Southern Root Knot Nematode (*Meloidogyne incognita*)
- ★ ☐ 0 Northern Root Knot Nematode (*Meloidogyne Hapla*)
- ☐ 0 Peanut Root Knot Nematode (*Meloidogyne arenaria*)
- ☐ 0 Reniform Nematode (*Rotylenchulus reniformis*)
- ☐ OTHER DISEASE NOT ON FORM (Specify): _____

20. PHYSIOLOGICAL RESPONSES: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)

- ★ ☐ 0 Iron Chlorosis on Calcareous Soil
- ☐ Other (Specify) _____

21. INSECT REACTION: (Enter 0 = Not Tested; 1 = Susceptible; 2 = Resistant)

- ☐ 0 Mexican Bean Beetle (*Epilachna varivestis*)
- ☒ 2 Potato Leaf Hopper (*Empoasca fabae*)
- ☐ Other (Specify) _____

22. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED.

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant Shape	Howard	Seed Coat Luster	9791
Leaf Shape	9791	Seed Size	9791
Leaf Color	9791	Seed Shape	9761
Leaf Size	9791	Seedling Pigmentation	9791

23. GIVE DATA FOR SUBMITTED AND SIMILAR STANDARD VARIETY: Paired Comparison Data

9200195

VARIETY	NO. OF DAYS MATURITY	PLANT LODGING SCORE	CM PLANT HEIGHT	LEAFLET SIZE		SEED CONTENT		SEED SIZE G/100 SEEDS	NO. SEEDS/ POD
				CM Width	CM Length	% Protein	% Oil		
9831 Submitted	154.0	2.2	87			41.6	22.5	13.5	
9791 Name of Similar Variety	151.5	1.9	79			42.0	21.0	13.5	

PUBLICATIONS USEFUL AS REFERENCE AIDS FOR COMPLETING THIS FORM:

1. Caldwell, B.E., ed. 1973. Soybeans: Improvement, Production, and Uses. Amer. Soc. Agron. Monograph No. 16.
2. Buttery, B.R. and R.I. Buzzell. 1968. Peroxidase activity in seeds of soybean varieties. Crop Sci., 8: 722-725.
3. Hymowitz, T. 1973. Electrophoretic analysis of SBTl-A₂ in the USDA soybean germplasm collection. Crop Sci., 13: 420-421.
4. Payne, R.C. and L.F. Morris. 1976. Differentiation of soybean cultivars by seedling pigmentation patterns. J. Seed Technol. 1: 1-19.

9831 Soybean (April, 1992)

Exhibit D: In Exhibit C we have identified 9831 as susceptible to brown spot, pod and stem blight, rhizoctonia root rot, bud blight, yellow mosaic, cowpea mosaic, pod mottle, and seed mottle. This does not mean that 9831 is any worse for these problems than other varieties of similar maturity. Rather, we do not consider 9831 to be immune to these problems. Therefore, we have chosen to be conservative and have identified the line as 'susceptible'.

A concern is that this will lead to incorrect classification of varieties based upon characteristics open to interpretation. However, we are attempting to submit forms which are as complete and accurate as possible.

Some applicants may not view the term 'resistance' as equivalent to the term 'immunity'. Similarly, some may not view 'susceptibility' as the utter failure of a variety under applicable conditions. It would be most helpful if resistant and susceptible varieties could be identified. If standards are known, then the terms 'resistant' and 'susceptible' have a consistent meaning to all applicants.

Table 2. Isozyme information for 9831

<u>ACO2</u>	<u>ACO3</u>	<u>ACO4</u>	<u>ACP</u>	<u>DIA</u>	<u>ENP</u>	<u>IDH1</u>	<u>IDH2</u>	<u>MDH</u>	<u>MPI</u>	<u>PGM</u>	<u>PHI</u>
1	1	3	A	B	A	1	2	B	A	2	2

9831 is an early group VIII variety. If group VIII maturities are divided in tenths, the relative maturity for 9831 is 8.3.

Pioneer Hi-Bred International, Inc.
PVP Application 9831 Soybean
April 1992

EXHIBIT E

Pioneer Hi-Bred International, Inc. is the sole, original, and first breeder of soybean variety 9831, for which it solicits a certificate of protection.